

In the Claims:

1. (Currently Amended) A method for notifying an end user of a powered device on an Ethernet based network that the powered device will not be powered due to an excess demand condition, the method comprising:
  - detecting an attached powered device;
  - identifying an excess demand condition; and
  - supplying power to said attached powered device for a first time interval thereby notifying an end user that the powered device is not being powered because of an excess demand condition, said supplied power being sufficient to fully power the attached powered device.
2. (Original) A method according to claim 1, wherein said powered device is a IEEE 802.3 compliant device.
3. (Original) A method according to claim 1, wherein said detecting is accomplished over a connection selected from among 10BaseT, 100BaseT and 1000BaseT.
4. (Original) A method according to claim 1, wherein said supplying power is accomplished by one of an Ethernet switch and a Midspan device.
5. (Original) A method according to claim 1, further comprising identifying the class of said attached powered device, said class comprising the power requirements of said attached powered device.
6. (Original) A method according to claim 1, further comprising signaling said attached powered device of said excess demand condition.
7. (Original) A method according to claim 6, further comprising displaying on said attached powered device a message indicative of said excess demand condition.

8. (Currently Amended) A method according to claim 1, further comprising storing an identifier of said detected attached powered device in a queue, said queue comprising an identifier of each of a plurality of attached powered devices, said plurality comprising said stored identifier of said detected attached powered device.

9. (Currently Amended) A method according to claim 5, further comprising storing an identifier of said detected attached powered device associated with said class of said powered device in a queue, said queue comprising an identifier of each of a plurality of attached powered devices each associated with a class, said plurality comprising said stored identifier of said detected attached powered device.

10. (Currently Amended) A method according to claim 8, further comprising alternately supplying power to each of said plurality of attached powered devices identified by said identifier in said queue for a second time interval said alternately supplied power being sufficient to fully power said attached powered device identified by said identifier.

11. (Currently Amended) A method according to claim 10, further comprising signaling each of said plurality of attached powered device identified by said identifier in said queue of said excess demand condition.

12. (Currently Amended) A method according to claim 11, further comprising displaying on each of said plurality of attached powered device a message indicative of said excess demand condition.

13. (Original) A method according to claim 10, wherein said second time interval is substantially the same as said first time interval.

14. (Original) A method according to claim 1, wherein said first time interval is between 10 seconds and 2 minutes.

15. (Original) A method according to claim 1, wherein said first time interval is between 30 seconds and 1 minute.

16. (Original) A method according to claim 10, wherein said second time interval is between 10 seconds and 2 minutes.

17. (Original) A method according to claim 8, wherein said first time interval is a function of the number of said identifiers in said queue.

18. (Currently Amended) A method according to claim 9, wherein said first time interval is a function of ~~sum~~ a sum of the power requirements represented by said class associated with ~~of~~ said identifiers in said queue.

19. (Currently Amended) A method according to claim 8, further comprising:  
detecting an additional power condition;  
powering at least one attached powered device identified by said identifier in said queue; and  
removing said identifier of said powered at least one attached powered device from said queue.

20. (Currently Amended) A method according to claim 19, further comprising:  
~~temporarily~~ supplying power to at least one attached powered device identified by said identifier remaining in said queue for ~~said first~~ a second time interval thereby notifying an end user that the powered device is not being powered because of said excess demand condition, said attached powered device being supplied power for said second time interval not being said powered at least one attached powered device.

21. (Currently Amended) An apparatus for notifying an end user of a powered device on an Ethernet based network of that the powered device will not be powered due to an excess demand condition, the apparatus comprising:

a powered device detector, for detecting an attached powered device connected thereto over communication cabling;

an excess demand identifier associated with said powered device detector, for identifying an excess demand condition;

a timer for timing a first time interval; and

a power enabler associated with said excess demand identifier and said timer, said power enabler operative to supply for supplying power to said detected attached powered device for said first time interval thereby notifying an end user that the powered device will not be powered because of said identified excess demand condition,

said supplied power being sufficient to fully power said detected attached powered device.

22. (Original) An apparatus according to claim 21, wherein said attached powered device is a IEEE 802.3 compliant device.

23. (Currently Amended) An apparatus according to claim 21, wherein said ~~attached powered device detector is connected to said powered device over a connection~~ communication cabling is selected from among 10BaseT, 100BaseT and 1000BaseT.

24. (Original) An apparatus according to claim 21, wherein said power enabler is located in one of an Ethernet switch and a Midspan device.

25. (Original) An apparatus according to claim 21, further comprising a powered device class identifier for identifying the class of said attached powered device, said class comprising the power requirement of said attached powered device.

26. (Original) An apparatus according to claim 21, further comprising signaling means associated with said power enabler for signaling said attached powered device of said identified excess demand condition.

27. (Original) An apparatus according to claim 26, further comprising a display connected to said powered device for displaying a message indicative of said excess demand condition.

28. (Currently Amended) An apparatus according to claim 21 further comprising:  
a storer associated with said power enabler; and  
a queue associated with said storer,  
said storer storing an identifier of said detected attached powered device in said queue, said queue comprising an identifier of each of a plurality of attached powered devices, said plurality comprising said stored identifier of said detected attached powered device.

29. (Currently Amended) An apparatus according to claim 25 further comprising:  
a storer associated with said power enabler; and  
a queue associated with said storer,  
said storer storing an identifier of said detected attached powered device associated with said class of said attached powered device in said queue, said queue comprising an identifier of each of a plurality of attached powered devices associated with a class, said plurality comprising said stored identifier of said detected attached powered device.

30. (Currently Amended) An apparatus according to claim 28, further comprising an alternator associated with said power enabler said timer and said queue, wherein said timer times a second time interval, and said alternator alternately powers each of said attached powered devices identified by said identifiers of said plurality of attached powered devices in said queue for said second time interval.

31. (Original) An apparatus according to claim 30, further comprising signaling means associated with said power enabler for signaling said attached powered device of said identified excess demand condition.

32. (Original) An apparatus according to claim 31, further comprising a display associated with said powered device for displaying a message indicative of said excess demand condition.

33. (Original) An apparatus according to claim 30, wherein said second time interval is substantially the same as said first time interval.

34. (Original) An apparatus according to claim 21, wherein said first time interval is between 10 seconds and 2 minutes.

35. (Original) An apparatus according to claim 21, wherein said first time interval is between 30 seconds and 1 minute.

36. (Original) An apparatus according to claim 30 wherein said second time interval is between 10 seconds and 2 minutes.

37. (Original) An apparatus according to claim 28, wherein said first time interval is a function of the number of said identifiers in said queue.

38. (Original) An apparatus according to claim 29, wherein said first time interval is a function of the total power requirements represented by said class of said identifiers in said queue.

39. (Original) An apparatus according to claim 28 further comprising:  
a power condition detector, for detecting an additional power condition; and

a remover, for removing the identification of at least one attached powered device for which power is now available from said queue.

40. (Currently Amended) A powered device adapted to sense an excess demand condition comprising:

a controller;

a display associated with said controller; and

a non-volatile memory associated with said controller,

whereby said controller compares a current time marker with a time marker stored on said non-volatile memory, said stored time marker being associated with a powering up event, and in the event the difference between said current time marker and said stored time marker are less than a specified time interval displays a message indicating an excess demand condition on said display.

41. (Original) A powered device according to claim 40, wherein said powered device is a IEEE 802.3 compliant device.

42. (Original) A powered device according to claim 40, wherein said powered device comprises an Internet Protocol (IP) telephone, an IP camera, a laptop computer or other portable computing device, a desktop computer, a door controller, a cellular base station or a wireless access control.

43. (Currently Amended) A method for detecting an excess demand condition in a powered device, comprising:

obtaining a current time marker;

comparing said current time marker with a previously stored time marker, said previously stored time marker being associated with a powering up of the powered device, thereby obtaining a time difference; and

displaying an excess demand condition message in the event that said time difference is less than a specified time interval.

44. (Original) A method for detecting an excess demand condition in a powered device, comprising:

obtaining a current time marker;

retrieving a last two previously stored time markers;

comparing said last two previously stored time markers to obtain a first time difference;

comparing the last of said last two previously stored time markers to said current time marker to obtain a second time difference; and

displaying an excess demand condition message in the event that said first time difference is less than a first specified time interval, and said second time difference is less than a second specified time interval.